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3 ½ Digit LCD Digital Panel Meter
PM-428 / PM-438

1. Features:

- 200mV full scale input sensitivity
- Single 9VDC operation
- Decimal point selectable
- 13mm LCD figure height
- Automatic polarity indication
- Guaranteed zero reading for 0 volts input
- High input impedance (>100MΩ)

2. Applications

Voltmeter	Current Meter
Thermometer	Capacitance Meter
PH Meter	Lux Meter
dB Meter	LCR Meter
Watt Meter	Other industrial & domestic uses

3. Specifications

- Maximum input: 199.9VDC
- Maximum display: 1999 counts (3 ½ digit) with automatic polarity indication
- Indication method: LCD display
- Measuring method: dual-slope integration A-D converter system
- Over-range indication: "1" shown in the display
- Reading rate time: 2 – 3 readings per second
- Input impedance: >100MΩ
- Accuracy: +/-5% (23^0 +/-5^0, <80% RH)
- Power dissipation: 1mADC
- Decimal point: selectable with wire jumper
- Supply voltage: 8 to 12VDC
- Size: 68mm x 44mm

4. Panel hole for fixing PM-428 / PM-438:

5. Operation:

A) If needed, added proper voltage dividers (not included) and decimal point jumper:

Maximum Voltage to be Measured	Proper Voltage Dividers	Decimal Point
200mV	---	Short-circuit P3
20V	Disconnect wire jumper in RB, RA=9.9MΩ RB=100kΩ	Short-circuit P2
200V	Disconnect wire jumper in RB, RB=9.99MΩ RA=10kΩ	Short-circuit P3
500V	Disconnect wire jumper in RB, RB=9.999MΩ RA=1kΩ	

RA and RB are 1/2W 0.5% metal film resistors

B) Connect an 8 to 12VDC power supply to the panel meter.

C) For ranges other than 200mV, input accurate 1/2x maximum voltage generated by calibrator (e.g. 100.0V for 200.0V range) and carefully adjust semi-fixed resistor R2 to have the same reading in LCD.

D) Connect the input voltage to be measured to Vin and GND. The input voltage should be DC only.

6. Wiring Diagram: